LISTING OF THE CLAIMS

This listing of claims, amended as indicated below, will replace all prior versions, and listings, of claims in the application

Claims 1-34: (Canceled).

35. (Previously Presented) A sprinkler assembly for receiving a supply of water and directing water therefrom, comprising:

a nozzle housing having a flow path therein for water received in the sprinkler assembly,

the flow path having a main portion extending along a central axis of the nozzle housing and an angled portion defining a water stream outlet passage through which water flowing in the flow path exits the sprinkler assembly;

a nozzle removably mounted in the outlet passage for distributing water from the sprinkler assembly; and

a valve including a substantially conical valve element rotatably mounted in the nozzle housing flow path;

a single opening in a conical wall of the conical valve element,

the single opening being movable into and out of the nozzle housing flow path by rotation of the valve element between open and closed positions to control water flow to the angled portion of the nozzle housing flow path.

36. (Previously Presented) The sprinkler assembly according to claim 35, further including an actuator by which the valve element can be moved between the open and closed positions from the exterior of the nozzle housing.

37-39. (Canceled)

40. (Previously Presented) The sprinkler assembly according to claim 35, further comprising an indicator provided on the nozzle housing for indicating a position of the valve element.

3

41-46. (Canceled)

- 47. (Previously Presented) The sprinkler assembly according to claim 35, wherein the valve element is rotatable around the central axis of the nozzle housing.
 - 48-84. (Canceled).
- 85. (Currently Amended) The sprinkler assembly according to claim 35, further including a transition portion having an upstream end opening which is substantially coaxial with the main portion of the nozzle housing flow path, and a downstream end opening which is substantially coaxial with the angled portion of the nozzle housing flow path;
- the valve element including an outlet opening which is being movable between the open and closed positions to control water flow between the main downstream end opening of the transition portion and the angled portions portion of the nozzle housing flow path.
- 86. (Previously Presented) The sprinkler assembly of claim 85, wherein the valve element is rotatably mounted in the nozzle housing to provide a sealing relationship with the water stream outlet.
- 87. (Currently Amended) The sprinkler assembly of claim 85, wherein the outlet single opening in the conical surface of the valve element is configured and positioned to revolve comprises an opening in the conical surface, and the valve element is rotatable around the central axis of the nozzle housing to align the opening with the angled portion when the valve is in the open position.
- 88. (Currently Amended) The sprinkler assembly of claim 85, wherein the further including an elbow-shaped transition portion between the main portion of the nozzle housing flow path and the angled portion of the nozzle housing flow path is elbow shaped.

00827123.1 4

- 89. (Currently Amended) The sprinkler assembly of claim 88, wherein the conical valve element surrounds the elbow-shaped transition portion, and the <u>single</u> opening in the conical <u>wall</u> of the valve element portion is aligned with a downstream end opining opening in the transition portion when the valve is in the open position.
- 90. (Previously Presented) The sprinkler assembly of claim 89, wherein the conical valve element is movable relative to the elbow-shaped transition portion to open and close the valve.
- 91. (Currently Amended) The sprinkler assembly of claim 88, wherein an opening in the conical wall of the valve element provides blocks communication between a downstream end of the transition portion and the angled portion of the flow path when the valve element is not in the closed position.
- 92. (Previously Presented) The sprinkler assembly of claim 87, further including an actuator coupled to the valve element, the actuator being accessible from the exterior of the nozzle housing and manually operable to rotate the valve element between the open and closed positions.
- 93. (Currently Amended) The sprinkler assembly of claim 92, wherein the valve element is rotatable by the actuator to align the <u>single</u> opening in the <u>conical wall of the</u> valve element with the angled portion of the water stream outlet when the valve is in the open position.
- 94. (Previously Presented) The sprinkler assembly of claim 93, wherein the actuator is radially offset from a central axis of the nozzle housing.
- 95. (Currently Amended) The sprinkler assembly of claim 35, further including an opening in a wherein the conical surface of the valve element which allows blocks water to flow to the angled portion of the nozzle housing flow path when the valve element is in the open closed position.
 - 96. (Currently Amended) The sprinkler assembly of claim 95, further including:

5

a transition portion; and

wherein [an] the single opening in the conical valve element provides communication between a downstream end of the transition portion and the angled portion of the flow path when the valve element is not in the closed position.

- 97. (Previously Presented) The sprinkler assembly of claim 95, wherein the conical surface is oriented perpendicular to a longitudinal axis of the angled portion of the nozzle housing flow path whereby the axis of the opening is aligned with longitudinal axis of the angled portion of the nozzle housing flow path when the valve is in the open position.
- 98. (Previously Presented) The sprinkler assembly of claim 35, further including: a rotary drive mechanism for the nozzle housing; a manually adjustable arc setting mechanism for setting an arc of coverage for the sprinkler; an actuator for moving the valve element between the open and closed positions, the actuator being so constructed that moving the valve element does not disturb an existing arc setting.
- 99. (Previously Presented) The sprinkler assembly of claim 98, further including a controller for moving the valve element, wherein the controller includes a gear, and a rotatable actuator coupled to the gear; and

wherein the valve element includes gear teeth around a circumference thereof which cooperate with the controller gear to move the valve element between the open position and the closed position when the actuator is rotated.

- 100. (Previously Presented) The sprinkler assembly according of claim 99, wherein the actuator is manually rotatable from the exterior of the nozzle housing.
- 101. (Previously Presented) The sprinkler assembly of claim 100, wherein the actuator is radially offset from a central axis of the nozzle housing.

102. (Previously Presented) The sprinkler assembly according to claim 35, wherein the conical valve element includes a curved interior passage having an upstream part which is axially aligned with the main portion of the nozzle flow path, and a downstream part which is axially aligned with the angled portion of the nozzle housing flow path, and in fluid communication therewith when the valve is open.

103. (Previously Presented) The sprinkler assembly according to claim 102, further including a flow guiding element in the downstream part of the curved passage.

104-113. (Canceled).

114. (Previously Presented) A sprinkler assembly for receiving a supply of water and directing water therefrom, comprising:

a nozzle housing having a central axis and a flow path therein for water received in the sprinkler assembly,

the flow path having a main portion extending along the central axis of the nozzle housing and an angled portion defining a water stream outlet passage through which water flowing through the flow path exits the sprinkler assembly;

a nozzle removably mounted in the outlet passage for distributing water from the sprinkler assembly; and

a valve disposed in the nozzle housing including a valve element which is movable between open and closed positions to control water flow between the main and angled portions of the nozzle housing flow path,

the valve element being substantially conical in shape and having a single opening formed in a conical wall thereof configured and positioned to align with the water stream outlet passage when the valve is in the open position.

115-118. (Canceled).

- 119. (Previously Presented) A sprinkler assembly comprising:
- a nozzle housing having a flow path therein for water received in the sprinkler assembly,
- the flow path having a main portion extending along the central axis of the nozzle housing and an angled portion defining a water stream outlet passage through which water flowing through the flow path exits the sprinkler assembly;
- a nozzle removably mounted in the outlet passage for distributing water from the sprinkler assembly; and
- a valve disposed in the nozzle housing including a substantially conical valve element rotatably mounted at a fixed axial position, and having a single opening formed in a conical wall thereof,
- the single opening being movable into the flow path by rotation of the conical valve element between open and closed positions to control water flow between the main and angled portions of the nozzle housing flow path.
- 120. (Previously Presented) The sprinkler assembly according to claim 35, further comprising:
- a flow throttle and shut off controller including a gear, and a rotatable actuator coupled to the gear; and
- wherein the valve element includes gear teeth around a circumference thereof which cooperate with the controller gear to move the valve element between the open position and the closed position when the actuator is rotated.
- 121. (Previously Presented) The sprinkler assembly according to claim 35, wherein the valve is so constructed and configured that the parts thereof which control the flow when the valve is not in the fully open position are substantially completely displaced from the nozzle housing flow path when the valve is fully open.

122. (Previously Presented) The sprinkler assembly of claim 35, wherein the valve element is rotatably mounted in the nozzle housing to provide a sealing relationship with the water stream outlet.

123. (Currently Amended) The sprinkler assembly of claim 35, wherein the conical surface is oriented perpendicular to a longitudinal axis of the angled portion of the nozzle housing flow path whereby the axis of the opening is aligned with <u>the</u> longitudinal axis of the angled portion of the nozzle housing flow path when the valve is in the open position.

124. (Canceled).